**Acceptance Tests**

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| addRecipe1 | Precondition: Run CoffeeMaker Enter: Menu option 1, "Add a recipe " Name: Coffee Price: 50 Coffee: 3 Milk: 1 Sugar: 1 Chocolate: 0 Return to main menu. | Coffee successfully added. |  |
| addRecipe2 | Precondition: Run CoffeeMaker  Enter: Menu option 1, "Add a recipe " Name: Cappuccino Price: 60 Coffee: 5 Milk: 2 Sugar: 2 Chocolate: 0 Return to main menu. | Coffee successfully added. |  |
| addRecipe3 | Precondition: Run CoffeeMaker  Enter: Menu option 1, "Add a recipe " Name: Latte Price: 60 Coffee: 3 Milk: 4 Sugar: 1 Chocolate: 0 Return to main menu. | Coffee successfully added. |  |
| addRecipe4 | Precondition: Run CoffeeMaker, addRecipe1, addRecipe2,  addRecipe3 successfully run Enter: Menu option 1, "Add a recipe " Return to main menu. | Recipes remain unchanged. |  |
| addRecipe5 | Precondition: Run CoffeeMaker, recipes are empty  Enter: Menu option 1, "Add a recipe " Name: Coffee Price: 50.5 Status message asking for integer price is displayed. Return to main menu. | Recipes remain unchanged. |  |
| addRecipe6 | Precondition: Run CoffeeMaker  Enter: Menu option 1, "Add a recipe " Name: Coffee Price: 50 Coffee: 3.5 Status message asking for integer amount of coffee is displayed. Return to main menu. | Recipes remain unchanged. |  |
| addRecipe7 | Precondition: Run CoffeeMaker  Enter: Menu option 1, "Add a recipe " Name: Coffee Price: 50 Coffee: 3 Milk: 1.5 Status message asking for integer amount of milk is displayed. Return to main menu. | Recipes remain unchanged. |  |
| addRecipe8 | Precondition: Run CoffeeMaker  Enter: Menu option 1, "Add a recipe " Name: Coffee Price: 50 Coffee: 3 Milk: 1 Sugar: 1.5 Status message asking for integer amount of sugar is displayed. Return to main menu. | Recipes remain unchanged. |  |
| addRecipe9 | Precondition: Run CoffeeMaker  Enter: Menu option 1, "Add a recipe " Name: Coffee Price: 50 Coffee: 3 Milk: 1 Sugar: 1 Chocolate: 0.5 Status message asking for integer amount of chocolate is displayed. Return to main menu. | Recipes remain unchanged. |  |
| addRecipe10 | Precondition: Run CoffeeMaker  Enter: Menu option 1, "Add a recipe " Name: Coffee Price: -50 Status message asking for positive price  is displayed. Return to main menu. | Recipes remain unchanged. |  |
| addRecipe11 | Precondition: Run CoffeeMaker  Enter: Menu option 1, "Add a recipe " Name: Coffee Price: 50 Coffee: -3 Status message asking for positive amount of coffee is displayed. Return to main menu. | Recipes remain unchanged. |  |
| addRecipe12 | Precondition: Run CoffeeMaker  Enter: Menu option 1, "Add a recipe " Name: Coffee Price: 50 Coffee: 3 Milk: -1 Status message asking for positive amount of milk is displayed. Return to main menu. | Recipes remain unchanged. |  |
| addRecipe13 | Precondition: Run CoffeeMaker  Enter: Menu option 1, "Add a recipe " Name: Coffee Price: 50 Coffee: 3 Milk: 1 Sugar: -1 Status message asking for positive amount of sugar is displayed. Return to main menu. | Recipes remain unchanged. |  |
| addRecipe14 | Precondition: Run CoffeeMaker  Enter: Menu option 1, "Add a recipe " Name: Coffee Price: 50 Coffee: 3 Milk: 1 Sugar: 1 Chocolate: -1 Status message asking for positive amount of chocolate is displayed. Return to main menu. | Recipes remain unchanged. |  |
| addRecipe15 | Precondition: Run CoffeeMaker, addRecipe1 has successfully run  Enter: Menu option 1, "Add a recipe " Name: Coffee Coffee: 4 Milk: 1 Sugar: 1 Chocolate: 1 Status message about failure to add recipe is displayed Return to main menu. | Recipes remain unchanged. |  |
| deleteRecipe1 | Precondition: addRecipe1 has run successfully Enter: Menu option 2, "Delete a recipe " Select recipe: 1  Return to main menu. | Successfully deleted |  |
| deleteRecipe2 | Precondition: addRecipe1 has run successfully Enter: Menu option 2, "Delete a recipe " Select recipe: 8 Return to main menu. | Recipes do not change. |  |
| deleteRecipe3 | Precondition: addRecipe1 has run successfully Enter: Menu option 2, "Delete a recipe " Select recipe: “a” Return to main menu. | Recipes do not change. |  |
| deleteRecipe4 | Precondition: addRecipe1 has run successfully, recipe 2 does not exist Enter: Menu option 2, "Delete a recipe " Select recipe: 2 Return to main menu. | Recipes do not change. |  |
| editRecipe1 | Precondition: addRecipe1 has run successfully  Enter: Menu option 3, "Edit a recipe " Select: Coffee  Price: 50 Coffee: 3 Milk: 1 Sugar: 1 Chocolate: 0  Return to main menu. | Coffee successfully added. |  |
| editRecipe2 | Precondition: addRecipe1 has run successfully  Enter: Menu option 3, "Edit a recipe " Select: “10” Main Menu is displayed. | Recipes do not change. CoffeeMaker ready for input. |  |
| editRecipe3 | Precondition: addRecipe1 has run successfully  Enter: Menu option 3, "Edit a recipe " Select: “a” Main Menu is displayed. | Recipes do not change. CoffeeMaker ready for input. |  |
| editRecipe4 | Precondition: addRecipe1 has run successfully  Enter: Menu option 3, "Edit a recipe " Select: Coffee  Enter price: 50.5 Status message asking for integer price is displayed. Main menu is displayed. | Recipes do not change. CoffeeMaker ready for input. |  |
| editRecipe5 | Precondition: addRecipe1 has run successfully  Enter: Menu option 3, "Edit a recipe " Select: Coffee  Enter price “a” Status message asking for price in numerical format is displayed. Main Menu is displayed. | Recipes do not change. CoffeeMaker ready for input. |  |
| editRecipe6 | Precondition: addRecipe1 has run successfully  Enter: Menu option 3, "Edit a recipe " Select: Coffee  Enter price: 50 Enter coffee: 3.5 Status message asking integer amount of coffee is displayed. Main Menu is displayed. | Recipes do not change. CoffeeMaker ready for input. |  |
| editRecipe7 | Precondition: addRecipe1 has run successfully  Enter: Menu option 3, "Edit a recipe " Select: Coffee  Enter price: 50 Enter coffee: 3 Enter milk: 1.5 Status message asking integer amount of milk is displayed. Main Menu is displayed. | Recipes do not change. CoffeeMaker ready for input. |  |
| editRecipe8 | Precondition: addRecipe1 has run successfully  Enter: Menu option 3, "Edit a recipe " Select: Coffee  Enter price: 50 Enter coffee: 3 Enter milk: 1 Enter sugar: 1.5 Status message asking integer amount of sugar is displayed. Main Menu is displayed. | Recipes do not change. CoffeeMaker ready for input. |  |
| editRecipe9 | Precondition: addRecipe1 has run successfully  Enter: Menu option 3, "Edit a recipe " Select: Coffee  Enter price: 50 Enter coffee: 3 Enter milk: 1 Enter sugar: 1 Enter chocolate: 1.5 Status message asking integer amount of chocolate is displayed. Main Menu is displayed. | Recipes do not change. CoffeeMaker ready for input. |  |
| editRecipe10 | Precondition: addRecipe1 has run successfully  Enter: Menu option 3, "Edit a recipe " Select: Coffee  Enter price: -50 Status message about invalid price is displayed. Main Menu is displayed. | Recipes do not change. CoffeeMaker ready for input. |  |
| editRecipe11 | Precondition: addRecipe1 has run successfully  Enter: Menu option 3, "Edit a recipe " Select: Coffee  Enter price: 50 Enter coffee: -3 Status message about invalid amount of coffee is displayed. Main Menu is displayed. | Recipes do not change. CoffeeMaker ready for input. |  |
| editRecipe13 | Precondition: addRecipe1 has run successfully  Enter: Menu option 3, "Edit a recipe " Select: Coffee  Enter price: 50 Enter coffee: 3 Enter milk: -1 Status message about invalid amount of milk is displayed. Main Menu is displayed. | Recipes do not change. CoffeeMaker ready for input. |  |
| editRecipe14 | Precondition: addRecipe1 has run successfully  Enter: Menu option 3, "Edit a recipe " Select recipe: 1 Select: Coffee  Enter price: 50 Enter coffee: 3 Enter milk: 1 Enter sugar: -1 Status message about invalid amount of sugar is displayed. Main Menu is displayed. | Recipes do not change. CoffeeMaker ready for input. |  |
| editRecipe15 | Precondition: addRecipe1 has run successfully  Enter: Menu option 3, "Edit a recipe " Select recipe: 1 Select: Coffee  Enter price: 50 Enter coffee: 3 Enter milk: 1 Enter sugar: 1 Enter chocolate: -1 Status message about invalid amount of chocolate is displayed. Main Menu is displayed. | Recipes do not change. CoffeeMaker ready for input. |  |
| editRecipe16 | Precondition: checkOptions has run successfully,  Recipe 2 is empty  Enter: Menu option 3, "Edit a recipe " Select recipe: 2 Main Menu is displayed. | Recipes do not change. CoffeeMaker ready for input. |  |
| checkOptions | Precondition: none run CoffeeMaker | Menu displayed:  1) add recipe  2) delete a recipe  3) edit a recipe  4) add inventory  5) check inventory  6) purchase beverage  Coffee Maker ready to receive input |  |
| addInventory1 | Precondition: checkOptions has run successfully Enter: Menu option 4, “add inventory" Enter: Coffee: 4 Enter: Milk: 4 Enter: Sugar: 4 Enter: Chocolate: 4 Status message displayed. | Inventory of coffee, milk, sugar and chocolate updated by 4.  CoffeeMaker ready to receive input. |  |
| addInventory2 | Precondition: checkOptions has run successfully Enter: Menu option 4, “add inventory" Enter: Coffee: -4 Input prompt coffee displayed Enter: Coffee: “a” Input prompt coffee displayed Enter: Coffee: 0 Enter Milk: -4 Input prompt milk displayed Enter Milk: “a” Input prompt milk displayed Enter Milk: 0 Enter: Sugar: -4 Input prompt sugar displayed  Enter: Sugar: “a” Input prompt sugar displayed Enter: Sugar: 0 Enter Chocolate: -4 Input prompt chocolate displayed  Enter Chocolate: “a” Input prompt chocolate appears Enter Chocolate: 0 | Inventory of coffee, milk, sugar and chocolate does not change. CoffeeMaker ready to receive input. |  |
| checkInventory | Precondition: checkOptions has run successfully Enter: Menu option 4, “check inventory" | The units coffee, milk, sugar, chocolate in the coffee maker are displayed.  CoffeeMaker ready to receive input. |  |
| purchaseBeverage1 | Precondition: checkOptions has run successfully,  Inventory: Coffee=3, Milk=1, Sugar=1  Enter: Menu option 6, “purchase beverage" Enter: Coffee Enter: $5 A message announcing the successful purchase is displayed. An amount of $4.5 is returned to the buyer. The main menu is displayed. | The amount of coffee, milk, sugar and chocolate listed in Recipe1 are subtracted from the ingredients in the inventory. CoffeeMaker ready to receive input |  |
| purchaseBeverage2 | Precondition: checkOptions has run successfully,  Inventory: Coffee=3, Milk=1, Sugar=1  Enter: Menu option 6, “purchase beverage" Enter: Coffee Enter: $0.1 | An amount of $0.1 is returned to the buyer. A message announcing the failure of the purchase is displayed. The main menu is displayed. |  |
| purchaseBeverage3 | Precondition: checkOptions has run successfully,  Inventory: Coffee=0, Milk=0, Sugar=0 Enter: Menu option 6, “purchase beverage" Enter: Coffee Enter: $0.5 | An amount of $0.5 is returned to the buyer. A message announcing the failure of the purchase is displayed. The main menu is displayed. |  |